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 NEWS  16 JAN 03   No connect-hour charges in EPFULL during January and
                   February 2005
 NEWS  17 FEB 25   CA/CAPLUS - Russian Agency for Patents and Trademarks
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 NEWS  18 FEB 10   STN Patent Forums to be held in March 2005
 NEWS  19 FEB 16   STN User Update to be held in conjunction with the 229th ACS
                   National Meeting on March 13, 2005
 NEWS  20 FEB 28   PATDPAFULL - New display fields provide for legal status
                   data from INPADOC
 NEWS  21 FEB 28   BABS - Current-awareness alerts (SDIs) available
 NEWS  22 FEB 28   MEDLINE/LMEDLINE reloaded
 NEWS  23 MAR 02   GBFULL: New full-text patent database on STN
 NEWS  24 MAR 03   REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  25 MAR 03   MEDLINE file segment of TOXCENTER reloaded

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
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       BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
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          1   FILE BIOTECHNO
          1   FILE CABA
          7   FILE CAPLUS
          1   FILE CEN
  23 FILES SEARCHED...
          1   FILE DISSABS
          1   FILE EMBASE
  36 FILES SEARCHED...
          2   FILE IFIPAT
          4   FILE MEDLINE
          1   FILE PASCAL
  55 FILES SEARCHED...
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          2   FILE SCISEARCH
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          1   FILE WATER
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L1   QUE SEQUENCING AND DIAZOMETHANE

=> d rank
F1          203   USPATFULL
F2           22   USPAT2
F3            7   CAPLUS
F4            4   MEDLINE
F5            2   BIOSIS
F6            2   IFIPAT
F7            2   SCISEARCH
F8            1   AGRICOLA
F9            1   ANABSTR
F10           1   BIOTECHNO
F11           1   CABA
F12           1   CEN
F13           1   DISSABS
F14           1   EMBASE
F15           1   PASCAL
F16           1   PROMT
F17           1   TOXCENTER
F18           1   WATER


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=> sequencing and diazomethane
L2           15 SEQUENCING AND DIAZOMETHANE

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L3             8 DUP REMOVE L2 (7 DUPLICATES REMOVED)

=> d ti 1-8

L3   ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2005 ACS on STN  DUPLICATE 1
TI   Development of an analytical scheme for simazine and 2,4-D in soil and
     water runoff from ornamental plant nursery plots
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L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
TI Purification and partial amino acid sequences of an esterase from tomato

L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
TI Cathepsin B-like cysteine proteases confer intestinal cysteine protease activity in Haemonchus contortus

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
TI Covalent modification of 2'-hydroxyl groups of RNA

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
TI Processing the procarboxypeptidase A and other zymogens in murine mast cells

L3 ANSWER 6 OF 8 MEDLINE on STN
TI The catecholamine binding site of the beta-adrenergic receptor is formed by juxtaposed membrane-spanning domains.

L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
TI Specific termination of RNA polymerase synthesis as a method of RNA and DNA **sequencing**

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
TI Peptide **sequencing** by low-resolution mass spectrometry. I. Use of Acetylacetonyl derivatives to identify N-terminal residues

=> d ab bib 2, 8

L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
AB Screening of 18 suspension plant cell cultures of taxonomically distant species revealed that a Me jasmonate hydrolyzing enzyme activity (0.21-5.67 pkat/mg) occurs in all species so far analyzed. The Me jasmonate hydrolyzing esterase was purified from cell cultures of Lycopersicon esculentum using a five-step procedure including anion-exchange chromatog., gel-filtration and chromatog. on hydroxylapatite. The esterase was purified 767-fold to give an almost homogeneous protein in a yield of 2.2%. The native enzyme exhibited a Mr of 26 kDa (gel-filtration chromatog.), which was similar to the Mr determined by SDS-PAGE and MALDI-TOF anal. (Mr of 28547 kDa). Enzyme kinetics revealed a Km value of 15 μM and a Vmax value of 7.97 nkat/mg, an pH optimum of 9.0 and a temperature optimum of 40 °C. The enzyme also efficiently hydrolyzed Me esters of abscisic acid, indole-3-acetic acid, and fatty acids. In contrast, Me esters of salicylic acid, benzoic acid and cinnamic acid were only poor substrates for the enzyme. N-Methylmaleimide, iodoacetamide, bestatin and pepstatin (inhibitors of thiol-, metal- and carboxyproteases, resp.) did not inactivate the enzyme while a serine protease inhibitor, phenylmethylsulfonyl fluoride, at a concentration of 5 mM led to irreversible and complete inhibition of enzyme activity. Proteolysis of the pure enzyme with endoproteinase LysC revealed three peptide fragments with 11-14 amino acids. N-Terminal **sequencing** yielded an addnl. peptide fragment with 10 amino acids. Sequence alignment of these fragments showed high homologies to certain plant esterases and hydroxynitrile lyases that belong to the α/β hydrolase fold protein superfamily.
AN 2002:382784 CAPLUS
DN 138:85391
TI Purification and partial amino acid sequences of an esterase from tomato
AU Stuhlfelder, Christiane; Lottspeich, Friedrich; Mueller, Martin J.
CS Julius-von-Sachs-Institute for Biosciences, Pharmaceutical Biology, University of Wurzburg, Wurzburg, D-97082, Germany
SO Phytochemistry (2002), 60(3), 233-240

CODEN: PYTCAS; ISSN: 0031-9422
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
AB A description was given of a low-resolution, mass-spectrometric method f or the **sequencing** of acetylacetonyl (ACA) peptides (I) which gave re liable results with small (2-10 amino acid residues) I, regardless of the amino acids present, and depending on the identification, in the mass spectra visualized, of the N-terminal amino acid residue, "A," which has been found to represent the most prominent peak in the spectra of ACA I esters with N-terminal aliphatic or acidic amino acids. The prominence of these "A" ions in the system employed afforded an unambiguous starting point in the search for the sequence ions (B, C, D, and B1, C1, D1). Under the exptl. conditions employed, arginine I were converted to δ-N-(2-pyrimidinyl) ornithine I, and the ε-amino group of lysine was also derivatized; all other functional groups present in the protein amino acids remained intact and were left unprotected. In some cases, partial loss of the side chain was observed with N-terminal methionine, serine, threonine, aspartic acid, and glutamic acid. Some larger seryl- and threonyl-I tended to dehydrate at higher probe temps., making it difficult to recognize these residues in the N-terminal position. Histidyl-, tyrosyl-, phenylalanyl-, and tryptophyl-I showed some elimination of the side chain as ArCH2+ or ArCH2O, but these ions helped to confirm the presence of these residues. Lysyl- and arginyl-I yielded very characteristic [A-99] fragments, and showed only very small "A" fragments in the mass spectra, while cystine derivs. underwent SS bond rupture, accompanied by H+ transfer. Although I containing unmodified asparagine have been sequenced, **diazomethane** reportedly has to be used instead of alc. HCl for esterification, to prevent hydrolysis to the corresponding aspartyl-I. The ACA-I esters have a relatively high vapor pressure and yielded readily interpretable mass spectra from hepta- and octa-I containing only the neutral amino acids. The presence of basic, polyfunctional amino acids decreased the volatility and limited the sequence procedure to tetra- and penta-I. Expts. to increase the volatility of the ACA-I esters by permethylation reportedly invariably yielded a complex mixture of products, the potential difficulty being the enamino ketone function, which reacts with MeI to give O and C alkylation and a nonvolatile quaternary salt.
AN 1970:51653 CAPLUS
DN 72:51653
TI Peptide **sequencing** by low-resolution mass spectrometry. I. Use of Acetylacetonyl derivatives to identify N-terminal residues
AU Bacon, V.; Jellum, E.; Patton, W.; Pereira, W.; Halpern, B.
CS Med. Center, Stanford Univ., Stanford, CA, USA
SO Biochemical and Biophysical Research Communications (1969), 37(6), 878-82
CODEN: BBRCA9; ISSN: 0006-291X
DT Journal
LA English